

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : **07-050631**

(43)Date of publication of application : **21.02.1995**

(51)Int.Cl.

**H04B 7/26**

(21)Application number : **05-194718**

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(22)Date of filing : **05.08.1993**

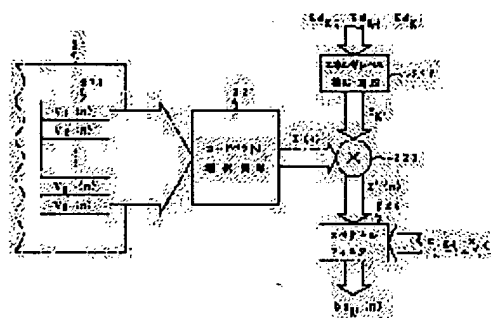
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## (54) DIGITAL RADIO COMMUNICATION EQUIPMENT WITH PSEUDO BACKGROUND NOISE GENERATION FUNCTION

(57)Abstract:

**PURPOSE:** To simplify and miniaturize the circuit constitution of a device by generating pseudo background noise by a simple constitution and a little amount of calculation.

**CONSTITUTION:** In a code book 211 provided within a sound decoding circuit 21, plural code vectors  $V_1(n)$ ,  $V_2(n)$ ,...  $V_{M-1}(n)$  and  $V_M(n)$  composed of unit variance random Gauss signals are already stored. The code vectors are selectively read from the code book 211 in a silent section by noting that these code vectors  $V_1(n)$ ,  $V_2(n)$ ,...  $V_{M-1}(n)$  and  $V_M(n)$  are not substantially used in the silent section. A pseudo background noise signal  $bnkf(n)$  is generated by multiplying this code vector  $Z(n)$  by the energy level information  $E_{kf}$  complemented and corrected by an energy level complement circuit 222 and by letting the vector pass a spectrum filter 224.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]